

DaimlerChrysler AG

Patent claims

- 5 1. Changeover valve, in particular for an automatic
transmission of a motor vehicle, having at least
one closing means (11) which is arranged in a
housing part (10) and which, in order to control a
10 flow, can be guided into at least two valve seats
(16, 17) and is arranged in a control duct (20)
which is open exclusively toward a connection side
(15) of the housing part (10),
characterized
in that in a switched-off state, considered in an
15 operating configuration, the closing means (11)
adopts a defined initial control position (18).
2. Changeover valve according to claim 1,
characterized
20 in that the defined initial position (18),
considered in the operating configuration, lies
below a second control position (19) of the
closing means (11) and, in the switched-off
position, the closing means (11) is held at least
25 partially in the defined initial control position
(18) under the force of gravity.
3. Changeover valve according to claim 2,
characterized
30 in that the control duct (20) has, considered in
the operating configuration, at least one angle to
the horizontal, and in its defined initial control
position (18), the closing means (11) bears
against a lower valve seat (16) in the control
35 duct (20).
4. Changeover valve according to claim 3,

characterized

in that in the second control position (19),
considered in the operating configuration, the
closing means (11) bears against an upper valve
5 seat (17) in the control duct (20).

5. Changeover valve according to claim 3 or 4,
characterized

10 in that the housing part (10) has at least one
second duct (21) in addition to the control duct
(20), and the control duct (20) and the second
duct (21) are connected by means of a transverse
duct (22) in the housing part (10).

15 6. Changeover valve according to claim 5,
characterized
in that the transverse duct (22) is formed by a
bore.

20 7. Changeover valve according to claim 5 or 6,
characterized
in that the transverse duct (22) is outwardly
sealed off by a metal closing plate (23).

25 8. Changeover valve according to one of the preceding
claims,
characterized
in that the defined initial control position (18)
corresponds to a rebound position.

30 9. Changeover valve according to one of the preceding
claims,
characterized
in that the closing means (11) is formed by a
35 valve ball.

10. Transmission control unit having at least one changeover valve as claimed in one of the preceding claims.